

or excessive contrasts of light and shade combined, moisture and dryness, differences in environment or other climatic causes as affecting the amount and distribution of pigment. These markings probably gradually arose simultaneously in a given region in all the individuals, and not as a variation in a single individual, which is supposed to have become favored in the struggle for existence.

4. While the initial causes therefore are Lamarckian, natural selection as a preservative process may form a subordinate factor.

5. To claim that Müllerian mimicry is due to the attacks of birds, is to overlook the fact of the existence of stripes, bars and spots on the wings of paleozoic insects which flourished before the appearance of birds, and even of modern types of lizards.

6. As observers and collectors differ so greatly in their interpretation of the facts, the subject of protective mimicry, even if the data and arguments here presented do not to some seem conclusive, should at least be considered as an open one, the importance of Bates and of Müller's hypotheses as factors in evolution having been in some quarters unduly magnified.

We hope that no one will suppose that there is any disposition on our part to underestimate the value of the labors of either Bates or Fritz Müller. On the contrary, no one has a higher appreciation of their work than myself. Mr. Bates' essay shows that he should rank with Darwin and Wallace; while Fritz Müller's brief article were in the nature of suggestions confined to a few pages. As a zoologist he ranks with Darwin in fertility of suggestion and as an original co-founder of evolution. Darwin's own estimate of Müller's little paper is given in *More Letters of Charles Darwin*, wherein he says that Müller's views on mimicry are "too speculative to be introduced into my book" (p. 91).

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*Stated Meeting, December 16, 1904.*

President SMITH in the Chair.

Mr. Alden Sampson read a paper entitled "A Deer's Bill of Fare."

Dr. M. J. Greenman, on behalf of Henry W. Fowler, presented a paper entitled "Description and Figure of *Coregonus nelsonii* Bean."

The President delivered his Annual Address which included "A Chapter in Electro-Analysis."